

XIV.—*Floræ Insularum Novæ Zelandiæ Precursor; or a Specimen of the Botany of the Islands of New Zealand.* By ALLAN CUNNINGHAM, Esq.

[Continued from p. 34.]

MYRTACEÆ, *R. Br.*, DC.

1. LEPTOSPERMUM, *Forst.*, Gærtn.

553. *L. scoparium*, *Forst. Char. Gen. t. 36. DC. Prodr. iii. p. 227. Willd. Sp. Pl. 2. p. 949. A. Rich. Fl. Nov. Zel. p. 337. Andr. Rep. t. 622. Kai-Katea* ab incolis vulgo vocatur.

New Zealand (Northern Island).—1769, *Sir Jos. Banks.* Bay of Islands.—1826, *A. Cunningham.* (Middle Island).—1773, *G. Forster.*

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Arbor mediocris, 12—15 pedalis, ramosissima. *Flores parvi albi ad apicem ramorum.*

2. METROSIDEROS, *R. Br.*, DC.

* *Foliis oppositis.*

555. *M. buxifolia*; scandens, ramulis incano-hirsutis, foliis (4—5 lineas longis) ellipticis ovatisve obtusis coriaceis venosis nitidis margine revolutis, breviter petiolatis utrinque pilis incanis conspersis subtus punctatis, floribus corymbosis terminalibus, pedunculis sæpe trifloris.

Aki, indigenis. *Lignum-Vitæ* of the Missionaries.

New Zealand (Northern Island). A rambling shrub adhering to trees, and by its lateral roots climbing to the summits of the loftiest timber in the forests of Wangaroa, Bay of Islands, &c.—1826, *A. Cunningham.*

Frutex ramosissimus, caule scandente radicante vel fibrillis radiciformibus ad truncos arborum adhærente quemadmodum *Hederæ*. *Folia* lato-elliptica, ovalia, obtusa. *Flores parvi*, albi, in corymbis ad summa ramulorum dispositi. *Calyx* monosepalus, tubu urceolato pubente limbo 5-dentato, dentibus brevissimis latis obtusis. *Corolla* quinquepetala, petalis sessilibus rotundatis valde concavis deciduis. *Stamina* numerosa, corolla longiora, filamentis glabris, antheris bilocularibus. *Stylus* simplex staminibus paulo longior. *Capsula* parvula, globosa, 3-locularis.

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The wood of this plant, which is hard and heavy, takes a most beautiful polish, and its grain seems to be only a continuation of hard knots, which gives it a peculiar but very beautiful appearance when wrought. Yate's New Zealand, p. 47.

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engaged in the construction of another ship on the same stocks and of similar material. The natives entertain the notion that this tree, the *Rata*, and the following very distinct species, which they call *Pohutu-Kawa*, are the same, but that the former is the *Wahéné* or female!

558. *M. tomentosa*; foliis ellipticis coriaceis acutiusculis breviter petiolatis utrinque reticulato-venosis superne glabris, subtus ramulis calycibusque albo-tomentosis, corymbis terminalibus paniculatis, pedunculis trifloris. *A. Rich. Fl. Nov. Zel. p. 336. t. 37.*—*Callistemon ellipticum. A. Cunn. Ms. 1826.*

Pohutu-Kawa ab incolis vulgo vocatur. *A. C. Yate.*—*Poutu-Kaoua*, nom. vernac. sec. *D'Urville.*

New Zealand (Northern Island).—1769, *Sir Jos. Banks.* Rocky sea-coast and shores of the Bay of Islands, within range of the tide.—1826, *A. Cunningham.*

Arbor vix 30 pedalis alta, habitu irregularis, ramulis teretibus, cano-tomentosis. *Folia* opposita, elliptico-acuta, basi sensim angustata, margine revoluta, 2¹—3 pollices longa. *Flores* sat magni, speciosi, splendide coccinei, in racemum terminalem paniculato-corymbosum digesti racemis, ramis ramulisque trichotomis, basi articulatis niveo-tomentosis. *Stamina* numerosa, petalis subunguiculatis deciduis multoties longiora stylum paulo superantia. *Capsula* ovoideo-obtusa, calyce cincta, ima basi tantum adhærens, trilocularis, polysperma. *Semina* subulata adscendentia.

An ordinary sized tree, inhabiting usually the immediate sea shore, where it is readily distinguished among other plants by the brilliancy and abundance of its flowers. The wood of the tree also is exceedingly hard, close-grained and heavy, equally valuable for ship building and implements of husbandry. It usually enlivens the shores of the Northern Island with its blossoms in December.

559. *M. florida*, foliis obovato-oblongis glabris lucidis venosis, subtus discoloribus punctatis, thyrso terminali calycibus oblongis turbinatis, ramulis radicanibus. *Sm. in Linn. Soc. Tr. v. iii. p. 268. DC. Prodr. iii. p. 224. A. Rich. Fl. Nov. Zel. p. 333.*—*Leptospermum scandens. Forst. Char. Gen. t. 36. f. 1.*

Raka-pika ab incolis dicitur. *R. Cunn.*

New Zealand (Northern Island).—1769, *Sir Jos. Banks.* Dense forests at the Bay of Islands, Wangaroa, &c. climbing to the summits of the loftiest trees.—1826, *A. Cunningham.*—1833, *R. Cunningham.*

Frutex ramosus, ramis glabris radicanibus scandentibus. *Folia* opposita, elliptico-oblonga, venosa, venis primariis parallelis in nervum margini approximatum desinentibus, utrinque minutissime et copiosissime punctatis. *Flores* in thyrsum coarctatum terminalem dispositi. *Calycis* *tubus* elongatus fere quemadmodum *Caryophylli* turbinatus, limbus 5-lobatus, lobis persistentibus rotundatis obtusis. *Petala* 5, flavescencia, unguiculata, obtusa, margine membranacea, tenuissime lacerata. *Stamina* numerosa, rubicunda,

engaged in the construction of another ship on the same stocks and of similar material. The natives entertain the notion that this tree, the *Rata*, and the following very distinct species, which they call *Pohutu-Kawa*, are the same, but that the former is the *Wahéné* or female!

558. *M. tomentosa*; foliis ellipticis coriaceis acutiusculis breviter petiolatis utrinque reticulato-venosis superne glabris, subtus ramulis calycibusque albo-tomentosis, corymbis terminalibus paniculatis, pedunculis trifloris. *A. Rich. Fl. Nov. Zel. p. 336. t. 37.*—*Callistemon ellipticum. A. Cunn. Ms. 1826.*

Pohutu-Kawa ab incolis vulgo vocatur. *A. C. Yate.*—*Poutu-Kaoua*, nom. vernac. sec. *D'Urville.*

New Zealand (Northern Island).—1769, *Sir Jos. Banks.* Rocky sea-coast and shores of the Bay of Islands, within range of the tide.—1826, *A. Cunningham.*

Arbor vix 30 pedalis alta, habitu irregularis, ramulis teretibus, cano-tomentosis. *Folia* opposita, elliptico-acuta, basi sensim angustata, margine revoluta, 2¹—3 pollices longa. *Flores* sat magni, speciosi, splendide coccinei, in racemum terminalem paniculato-corymbosum digesti racemis, ramis ramulisque trichotomis, basi articulatis niveo-tomentosis. *Stamina* numerosa, petalis subunguiculatis deciduis multoties longiora stylum paulo superantia. *Capsula* ovoideo-obtusa, calyce cincta, ima basi tantum adhærens, trilocularis, polysperma. *Semina* subulata adscendentia.

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New Zealand (Northern Island).—1769, *Sir Jos. Banks*. In dense forests at Wangaroa, adhering to the trunks of the largest timber trees.—1826, *A. Cunningham*.

Frutex ramosus, glaberrimus. *Ramuli* radicanes. *Folia* elliptica, acuminata, obtusa, petiolata, lucida, revoluta ab basin trinervia. *Panicula* ramosa plerumque terminalis. *Calyx* campanulatus, persistens, limbus 5-lobatus, lobis obtusis. *Petala* 5, lutea, breviter unguiculata, concava, obtusa, tenuissime ciliata decidua. *Stamina* flavescentia, petalis quater longiora, stylum æquantia. *Capsula* globosa, trilocularis, trivalvis. *Semina* —?

561. *M. ? lucida*, foliis lanceolatis utrinque acuminatis aveniis enerviis, floribus terminalibus congestis sessilibus. *A. Rich. Fl. Nov. Zel. p. 333.*—*Melaleuca lucida. Forst. Prodr. n. 216. non Linn.*

New Zealand.—1773, *G. Forster*.

Obs. A very little understood species, not noticed by *M. DeCandolle*, and only by *M. A. Richard* from *Forster* with a mark of doubt.

562. *M. hypericifolia*, glabra, ramis radicanibus, foliis sessilibus ovalibus oblongo-lanceolatisve obtusis cum apiculo utrinque glabris, junioribus subciliatis, subtus venosis ad basin triplinerviis, racemis brevibus subpaniculatis lateralibus ramulisque pubentibus, calycibus subinfundibuliformibus.

New Zealand (Northern Island). In dense forests, adhering to trees, near the Kahio river, Wangaroa,—1833, *R. Cunningham*.

Frutex subscandens, cortice ramulorum pallide testaceo membranaceo pubente laxo, facile separabili. *Rami* stricti, teretes, juniores foliati. *Folia* opposita, sessilia, basi rotundata, uncialia subtus discoloria. *Flores* racemosi rubicundi. *Calycis limbus* quinquedentatus, dentibus brevibus deciduis. *Petala* 5, rosea, glabra, obtusa, caduca. *Stamina* numerosa, petalis plus triplo longiora, stylum æquantia. *Capsula* parva, globosa, leviter pubens (loculicido-dehiscens) 3-locularis, 3-valvis, valvis medio septiferis.

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New Zealand (Northern Island). Forests of Wangaroa.—1833, *R. Cunningham*.

Arbuscula gracilis elegans, ramis teretibus pallidis sæpe et præsertim ad axillas radicanibus. *Folia* (3—5 uncialia) opposita valde angusta, attenuata coriacea, nitidissima, parce punctata, venosa. *Flores* nondum vidi.

3. EUGENIA, *Mich., L.*

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New Zealand (Northern Island). Forests of Wangaroa.—1833, *R. Cunningham.*

Arbuscula gracilis elegans, ramis teretibus pallidis sæpe et præsertim ad axillas radicanibus. *Folia* (3—5 uncialia) opposita valde angusta, attenuata coriacea, nitidissima, parce punctata, venosa. *Flores* nondum vidi.

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ovato-lanceolatis acuminatis basi attenuatis petiolatis, fructu ovato turbinato.

Mairi-tawaka ab incolis vulgo vocatur.

New Zealand (Northern Island). Alluvial banks of rivers, Bay of Islands, &c.—1833, *R. Cunningham*.

Arbor 30—40 pedalis. *Rami* pallidi, glabri, sparsi, alterni. *Flores* numerosi, axillares, calycibus coloratis. *Drupa* monosperma, lobis calycis obtusis ample coronata.

4. MYRTUS, *L.*, *Gart.*

565. *M. bullata*, pedunculis axillaribus 1- rare 2-floris vix folio longioribus, pubescentibus apice bibracteatis, bracteis deciduis, foliis rhombéo-ellipticis acutiusculis ovato-orbiculatisve petiolatis alte bullatis supra glabris, subtus coloratis ramulisque dense pubentibus, calycibus tuberculatis, pilosis quadrilobis. *Sol. Ms. in Bibl. Banks.*

Rama-rama indigenis.

New Zealand (Northern Island).—1769, *Sir Jos. Banks*. Shady woods, Bay of Islands, flowering in December.—1826, *A. Cunningham*.—1834, *R. Cunningham*.

Arbuscula gracilis, 10—15 pedalis, ramis virgatis patentibus. *Folia* opposita. *Flores* albi. *Stamina* numerosa, longitudine styli. *Lobi calycis* elliptici, acuti, concavi. *Petala* 4, orbiculata, concava, leviter crenulata, ciliata. *Bacca* verrucosa, bilocularis di- vel oligo-sperma. *Semina* reniformi-incurva.

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The preface is followed by a disquisition on the *Gentianeæ*, which is full of valuable information. First, the character of the natural family is ably discussed; then follow its affinities; and lastly, the geographical distribution. The number of species the author describes is 343, or about $\frac{1}{30}$ th of the known portion of the vegetable kingdom. These are dispersed over a considerable portion of the world: but it is to be observed that no species have been found in several of the isles of the Pacific Ocean, in tropical New Holland, in the islands of Timor, Sumatra, and other of the Polynesian group,

ovato-lanceolatis acuminatis basi attenuatis petiolatis, fructu ovato turbinato.

Mairi-tawaka ab incolis vulgo vocatur.

New Zealand (Northern Island). Alluvial banks of rivers, Bay of Islands, &c.—1833, *R. Cunningham*.

Arbor 30—40 pedalis. *Rami* pallidi, glabri, sparsi, alterni. *Flores* numerosi, axillares, calycibus coloratis. *Drupa* monosperma, lobis calycis obtusis ample coronata.

4. MYRTUS, *L.*, *Gart.*

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